

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match. The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.*

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.4.g 4 O'Clock (PEER 9) Power-Up Tests from MCR

C-A-OPM Procedures in which this Attachment is used.		
4.120		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
_____	_____	_____	_____
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Approved: _____ ***Signature on File*** _____
 Collider-Accelerator Department Chairman Date

V. Castillo

C-A-OPM-ATT 4.120.4.g (Y)

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Revision 00
 February 12, 2003

4.120.4.g 4 O’Clock (PEER 9) Power-Up Tests from MCR

PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title: _____ Checksum: _____

Division B Software Filename and Checksum: Title: _____ Checksum: _____

Initial testing complete:

Test Team Leader’s Name (Print): _____ Life Number: _____

Test Team Leader’s Name (Sign): _____ Date: ____/____/____

Acceptance test procedure complete (following repairs and retesting if required):

Test Team Leader’s Name (Print): _____ Life Number: _____

Test Team Leader’s Name (Sign): _____ Date: ____/____/____

Test results reviewed by:

Safety Section Head’s Name (Print): _____ Life Number: _____

Safety Section Head’s Name (Sign): _____ Date: ____/____/____

Test results accepted by Radiation Safety Committee:

RSC Member’s Name (Print): _____ Life Number: _____

RSC Member’s Name (Sign): _____ Date: ____/____/____

1.1	PLACE	Peer 9 in Mode 16	
	☐ VERIFY	Peer 9 is in Controlled Access	MODE 16
	RESET	Peer 9 gates: 3GI1, 3EL1, 4GE1, 4MD1, 4MD2, 4GE2, 4GI1, 4GE3, 4EL1, and 4ED	
	☐ VERIFY	Peer 9 gates: ☐ 3GI1, ☐ 3EL1, ☐ 4GE1, ☐ 4MD1, ☐ 4MD2, ☐ 4GE2, ☐ 4GI1, ☐ 4GE3, ☐ 4EL1, ☐ 4ED1, are	RESET
	SWEEP	Peer 9 Zones: 4Z1, 4Z2	
	☐ VERIFY	Peer 9 Zones: ☐ 4Z1, ☐ 4Z2 are	SWEPT
1.2	PLACE	Peer 9 in Mode 24	
	☐ VERIFY	Peer 9 is in No Access	MODE 24
	TEST	Division A PLC for Power-up conditions	
	TURN OFF	AC Power to the Peer 9 Division A PLC	
	☐ VERIFY	AC Power to the Peer 9 Division A PLC is	TURNED OFF
	WAIT	30 Seconds	
	TURN ON	AC Power to the Peer 9 Division A PLC	
	☐ VERIFY	AC Power to the Peer 9 Division A PLC is	TURNED ON
	☐ VERIFY	MCR sees Peer 9 Division A PLC come up in	MODE 2
	RESET	Div A Hardware Faults	
	☐ VERIFY	Div A Hardware Faults are	RESET
	☐ VERIFY	MCR sees Div A RHIC Injection Critical Device	OFF
	☐ VERIFY	MCR sees Div A RHIC G1BS ☐, G2BS ☐ are	SAFE
	☐ VERIFY	MCR sees Div A Permit Link is	DISABLED
	☐ VERIFY	MCR sees Peer 9 Div A gates: ☐ 3GI1, ☐ 3EL1, ☐ 4GE1, ☐ 4MD1, ☐ 4MD2, ☐ 4GE2, ☐ 4GI1, ☐ 4GE3, ☐ 4EL1, ☐ 4ED1, are	NOT RESET
	☐ VERIFY	MCR sees Peer 9 Div A Crash Systems are	NOT CRASHED
	☐ VERIFY	MCR sees Peer 9 Div A Zones are	NOT SWEPT
	☐ VERIFY	MCR sees Peer 9 Div B: ☐ Mode, ☐ H/W Faults, ☐ RHIC Inj CD, ☐ RHIC CD, ☐ Perm. Link, ☐ Gates, ☐ Crash, ☐ Zones	NO CHANGE
	PLACE	Peer 9 in Mode 16	
	☐ VERIFY	Peer 9 is in Controlled Access	MODE 16
	RESET	Peer 9 Div A gates: 3GI1, 3EL1, 4GE1, 4MD1, 4MD2, 4GE2, 4GI1, 4GE3, 4EL1, and 4ED1	
	☐ VERIFY	Peer 9 Div A gates: ☐ 3GI1, ☐ 3EL1, ☐ 4GE1, ☐ 4MD1, ☐ 4MD2, ☐ 4GE2, ☐ 4GI1, ☐ 4GE3, ☐ 4EL1, ☐ 4ED1 are	RESET
	SWEEP	Peer 9 Div A Zones: 4Z1, 4Z2	
	☐ VERIFY	Peer 9 Zones: ☐ 4Z1, ☐ 4Z2 are	SWEPT
	PLACE	Peer 9 in Mode 24	
	☐ VERIFY	Peer 9 Div B is in No Access	MODE 24

1.3	TEST	Division B PLC for Power-up conditions	
	TURN OFF	AC Power to the Peer 9 Division B PLC	
<input type="checkbox"/>	VERIFY	AC Power to the Peer 9 Division B PLC is	TURNED OFF
	WAIT	30 Seconds	
	TURN ON	AC Power to the Peer 9 Division B PLC	
<input type="checkbox"/>	VERIFY	AC Power to the Peer 9 Division B PLC is	TURNED ON
<input type="checkbox"/>	VERIFY	MCR sees Peer 9 Division B PLC come up in	MODE 2
	RESET	Div B Hardware Faults	
<input type="checkbox"/>	VERIFY	Div B Hardware Faults are	RESET
<input type="checkbox"/>	VERIFY	MCR sees Div B RHIC Injection Critical Device	OFF
<input type="checkbox"/>	VERIFY	MCR sees Div B RHIC G1BS <input type="checkbox"/>, G2BS <input type="checkbox"/> are	SAFE
<input type="checkbox"/>	VERIFY	MCR sees Div B Permit Link is	DISABLED
<input type="checkbox"/>	VERIFY	MCR sees Peer 9 Div B gates: <input type="checkbox"/> 3GI1, <input type="checkbox"/> 3EL1, <input type="checkbox"/> 4GE1, <input type="checkbox"/> 4MD1, <input type="checkbox"/> 4MD2, <input type="checkbox"/> 4GE2, <input type="checkbox"/> 4GI1, <input type="checkbox"/> 4GE3, <input type="checkbox"/> 4EL1, <input type="checkbox"/> 4ED1, are	NOT RESET
<input type="checkbox"/>	VERIFY	MCR sees Peer 9 Div B Crash Systems are	NOT CRASHED
<input type="checkbox"/>	VERIFY	MCR sees Peer 9 Div B Zones are	NOT SWEPT
<input type="checkbox"/>	VERIFY	MCR sees Peer 9 Div A: <input type="checkbox"/> Mode, <input type="checkbox"/> H/W Faults, <input type="checkbox"/> RHIC Inj CD, <input type="checkbox"/> RHIC CD, <input type="checkbox"/> Perm. Link, <input type="checkbox"/> Gates, <input type="checkbox"/> Crash, <input type="checkbox"/> Zones	NO CHANGE
	PLACE	Peer 9 in Mode 16	
<input type="checkbox"/>	VERIFY	Peer 9 is in Controlled Access	MODE 16
	RESET	Peer 9 Div B gates: 3GI1, 3EL1, 4GE1, 4MD1, 4MD2, 4GE2, 4GI1, 4GE3, 4EL1, and 4ED1	
<input type="checkbox"/>	VERIFY	Peer 9 Div B gates: <input type="checkbox"/> 3GI1, <input type="checkbox"/> 3EL1, <input type="checkbox"/> 4GE1, <input type="checkbox"/> 4MD1, <input type="checkbox"/> 4MD2, <input type="checkbox"/> 4GE2, <input type="checkbox"/> 4GI1, <input type="checkbox"/> 4GE3, <input type="checkbox"/> 4EL1, <input type="checkbox"/> 4ED1 are	RESET
	SWEEP	Peer 9 Div B Zones: 4Z1, 4Z2	
<input type="checkbox"/>	VERIFY	Peer 9 Zones: <input type="checkbox"/> 4Z1, <input type="checkbox"/> 4Z2 are	SWEPT

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: ____/____/____

TTL: Sign for completion of final testing: _____

Date: ____/____/____